	Application No.	Applicant(s)	
	09/826,036	CHAPPLE-SOKOL ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Rodney G. McDonald	1753	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT THE OFFICE OF THE OFFICE OFFICE OF THE OFFICE OF THE OFFICE OFF	OR REMAINS) CLOSED in or other appropriate commur GHTS. This application is su	this application. If not included nication will be mailed in due course.	THIS initiative
1. \boxtimes This communication is responsive to <u>Amendment filed 12-1</u>	<u>9-03</u> .		
2. The allowed claim(s) is/are <u>1,2,4-8,10,15 and 21-27</u> .			
3. \boxtimes The drawings filed on <u>05 July 2001</u> are accepted by the Exa	aminer.		
 4. ☐ Acknowledgment is made of a claim for foreign priority unda a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: ☐ Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMITHIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftsperson 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ☐ (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date ☐ Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the 7. ☐ DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT Foreign 1. ☐ DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT Foreign 2. ☐ Pager No./Mail Date ☐ DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT Foreign 2. ☐ Pager No./Mail Date ☐ DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT Foreign 2. ☐ Pager No./Mail Date ☐ DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT Foreign 2. ☐ Pager No./Mail Date ☐ DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT Foreign 2. ☐ Pager No./Mail Date ☐ DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT Foreign 2. ☐ Pager No./Mail Date ☐ DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT Foreign 2. ☐ Pager No./Mail Da	been received. been received in Application numents have been received of this communication to file at ENT of this application. Itted. Note the attached EXAI is reason(s) why the oath or of the submitted. It be submitted. It is application on the submittent of the submitted of the submittent of the submittent of the submitted of the submittent	No in this national stage application from a reply complying with the requirement of the claration is deficient. (PTO-948) attached of the Office action of the Alambagain the front (not the back) of 1.121(d). RIAL must be submitted. Note the	nts OF
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ⊠ Interview Sur Paper No./N 3), 7. ⊠ Examiner's A	ormal Patent Application (PTO-152) mmary (PTO-413), fail Date <u>2-25-04</u> . mendment/Comment statement of Reasons for Allowance Molos J. McDonald Primary Examiner Art Unit: 1753	

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Larry Hume on February 25, 2004.

The application has been amended as follows:

Claim 23, line 1, insert the phrase "said silicide substrate comprises".

Claim 23, line 2, replace "said" with "a".

Claim 23, line 2, delete the word "is".

The following is an examiner's statement of reasons for allowance:

Claims 1, 2, 4-8, 10, 15 and 21-27 are allowable over the prior art of record because the prior art of record does not teach forming a first continuous sacrificial layer. . .completely covering the oxide layer and the liner layer; forming a second layer, comprising a refractory material, on the first continuous sacrificial layer. . .so as to cover the first layer and to also substantially fill the opening, and during said forming a second layer, sacrificing at least a portion of the first continuous sacrificial layer, wherein said sacrificing at least a portion of the first continuous sacrificial layer ensures against a deterioration of the silicide substrate underlying both the oxide layer and the liner layer.

The closest prior art to Desai et al. fail to teach depositing the continuous liner layer for sacrificing. Desai et al. teach depositing a silicon layer over the barrier layer

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and wetting adhesion layer as shown in Desai et al.'s Figure 2. The claims of Desai et al. require depositing the silicon on a sidewall.

The Examiner further understands that "sacrificing *at least a portion* of the first continuous sacrificial layer" to include some or all the sacrificial layer dependent on how much fluorine is consumed by the silicon and the amount of fluorine available for interaction and combination with the sacrificial layer as described on Page 5 lines 5-13 of Applicant's specification.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rodney G. McDonald whose telephone number is 571-272-1340. The examiner can normally be reached on M- Th with Every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam X. Nguyen can be reached on 571-272-1342. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rodney G. McDonald Primary Examiner Art Unit 1753

Anda Durand

RM February 25, 2004